

Title (en)  
MATERIAL HANDLING VEHICLE HAVING A MULTI-PIECE BUMPER ASSEMBLY

Title (de)  
MATERIALHANDHABUNGSFAHRZEUG MIT MEHRTEILIGER STOSSFÄNGERANORDNUNG

Title (fr)  
VÉHICULE DE MANUTENTION DE MATÉRIAUX AYANT UN ENSEMBLE PARE-CHOCS EN PLUSIEURS PARTIES

Publication  
**EP 3718831 A1 20201007 (EN)**

Application  
**EP 20167619 A 20200401**

Priority  
US 201962830107 P 20190405

Abstract (en)  
A bumper assembly for a material handling vehicle is provided. The material handling vehicle includes a vehicle frame. The bumper assembly includes a first bumper coupled to a first side of the vehicle frame and having a first slot extending along a portion of the first bumper and a first protruding portion. The first protruding portion extends outwardly at an angle past a plane defined by the first side of the vehicle frame. The bumper assembly further includes a second bumper coupled to a second side of the vehicle frame opposite to the first side and having a second slot extending along a portion of the second bumper and a second protruding portion. The second protruding portion extends outwardly at an angle past a plane defined by the second side of the vehicle frame.

IPC 8 full level  
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**E02F 9/16** (2006.01)

CPC (source: CN EP US)  
**B60R 19/02** (2013.01 - CN); **B60R 19/18** (2013.01 - EP); **B60R 19/24** (2013.01 - EP); **B60R 19/42** (2013.01 - EP);  
**B60R 19/483** (2013.01 - CN US); **B60R 19/54** (2013.01 - EP); **B66F 9/07513** (2013.01 - EP); **E02F 9/0858** (2013.01 - EP);  
**B60R 19/04** (2013.01 - US); **B60R 19/42** (2013.01 - US); **B60R 2019/026** (2013.01 - US); **B60R 2019/186** (2013.01 - EP)

Citation (applicant)  
US 201962830107 P 20190405

Citation (search report)  
• [I] US 2018057329 A1 20180301 - POESCHL FRANZ [DE], et al  
• [A] KR 20120007652 U 20121107

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DOCDB simple family (publication)  
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US 11383660 B2 20220712; US 11577676 B2 20230214; US 2020317150 A1 20201008; US 2022340094 A1 20221027

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**EP 20167619 A 20200401**; AU 2020202311 A 20200401; CA 3077787 A 20200402; CN 202010254800 A 20200402;  
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